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QC-ABSTRACT

Name of Work:- Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	1:3:6	229.94 Cum	1	1	Cement Sand, Aggregates
2	M20	360.63 Cum	11	11	Concrete Cube Compressive strength
3	Steel	23.84 Tonne	1	1	-
4	Slab 100mm	890.10 Sqm	1	1	Concrete Core Compressive strength
5	Slab 250mm	37.50 Sqm	1	1	Concrete Core Compressive strength
6	M30	59.25 Cum	5	5	Concrete Cube Compressive strength

Cubes
0-5 m^3 1set
6-15 m^3 2set
16-30 m^3 3set
31-50 m^3 4 set
Add 1set for every 50 Cum

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 21.07.2021

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Umesh N,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		June - 2021
DATE OF TESTING		19.07.2021 to 21.07.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part 5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part 5)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Fineness (by dry Sieving on IS 90 micron Sieve)	IS-4031 (Part 1)	2.10m	Shall not be more than 10mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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⇒ The Results of the Materials tested meets the Standards and hence can be used for the work.

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date : 21.07.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Date of Testing : 21.07.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II	Remarks
10	0	0	0	100	100	The Sample Confirms to Grading Zone-II
4.75	79	7.90	7.90	92.1	90-100	
2.36	132	13.20	21.10	78.9	75-100	
1.18	189	18.90	40.00	60.0	55-90	
600 Micron	156	15.60	55.60	44.4	35-59	
300 Micron	220	22.00	77.60	22.4	8-30	
150 Micron	168	16.80	94.40	5.6	0-10	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date : 21.07.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Date of Testing : 21.07.2021

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2433	48.7	52.4	47.6	25-55
4.75	1965	39.3	91.7	8.3	0-10

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Date : 21.07.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Date of Testing : 21.07.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	175	1.17	1.17	98.83	95-100
20	8320	55.47	56.63	43.37	30-70
10	3266	21.77	78.41	21.59	10-35
4.75	2868	19.12	97.53	2.47	0-5

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date : 23.07.2021

TEST REPORT COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample Type/Size: : 20mm Aggregates

Date of test: : 21.07.2021 to 23.07.2021

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as Per IS. Specification IS383-1970 (Reaffirmed 2002)
1	Crushing Value (%)	26.98%	Max 45%
2	Specific Gravity	2.67%	–
3	Water Absorption	0.49%	–
4	Combined Flakiness & Elongation Index	24.80%	–

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date : 23.07.2021

TEST REPORT FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : Sri. Umesh N, Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample Type/Size: : Sand

Date of test: : 21.07.2021 to 23.07.2021

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as Per IS. Specification IS383-1970 (Reaffirmed 2002)
1	Specific Gravity	2.64%	–
2	Silt Content	0.57%	Not More than 8%
2	Bulking of Sand	18.42%	–

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date : 23.07.2021

TEST REPORT COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample Type/Size: : 40mm Aggregates

Date of test: : 21.07.2021 to 23.07.2021

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as Per IS. Specification IS383-1970 (Reaffirmed 2002)
1	Crushing Value (%)	27.48%	Max 45%
2	Specific Gravity	2.66%	–
3	Water Absorption	0.45%	–
4	Combined Flakiness & Elongation Index	25.10%	–

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date : 21.07.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Date of Testing : 21.07.2021

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	39	3.90	5.30	94.7	70-100
600 Micron	82	8.20	13.50	86.5	40-100
300 Micron	265	26.50	40.00	60.0	5-70
150 Micron	498	49.80	89.80	10.2	0-15

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Job No. CACE/BBMP/UN/W.No.05/2021-22

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Steel Dia/Length : 10mm,12mm " Fe500 TMT Bars

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 23.07.2021

S.No	Details	For 10mm		For 12mm	
		Test Reaults	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
1	Observed diameter of bar	10.00mm	10.00mm	12.0mm	12.0mm
2	Observed Wt/m Lemgth Kg/m	0.620	0.567	0.892	0.834
3	Proof Stress / Yield Stress, fy, N/mm^2	548	500.0	562.0	500.0
4	Bend / Re bend Test	Ok	-	Ok	-
5	Percentage of Elongation, %	16.50	12.00	17.00	12.00
6	Ultimate Tensile strength N/mm2	620	545	638	545

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 06.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**: Sri. Umesh N,** Contractor, Bangalore.
Name of the work	: Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.
Sample ID	: Cement Concrete for Raft (Drain)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	30.07.2021	06.08.2021	8.169	356.3	15.84	
2	30.07.2021	06.08.2021	8.184	329.6	14.65	15.57
3	30.07.2021	06.08.2021	8.156	365.3	16.24	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 27.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	30.07.2021	27.08.2021	8.198	515.2	22.90	
2	30.07.2021	27.08.2021	8.184	508.9	22.62	22.41
3	30.07.2021	27.08.2021	8.165	488.9	21.73	

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 06.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : Sri. Umesh N, Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	30.07.2021	06.08.2021	8.146	336.3	14.95	15.54
2	30.07.2021	06.08.2021	8.152	365.9	16.26	
3	30.07.2021	06.08.2021	8.138	346.8	15.41	

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.
4. The Results of the Materials tested meets the Standards and hence can be used for the work.

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 27.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	30.07.2021	27.08.2021	8.184	500.2	22.23	22.30
2	30.07.2021	27.08.2021	8.169	488.9	21.73	
3	30.07.2021	27.08.2021	8.152	516.3	22.95	

Note:

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 09.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	02.08.2021	09.08.2021	8.146	329.6	14.65	
2	02.08.2021	09.08.2021	8.152	346.8	15.41	15.34
3	02.08.2021	09.08.2021	8.138	359.2	15.96	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 30.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	02.08.2021	30.08.2021	8.184	506.2	22.50	
2	02.08.2021	30.08.2021	8.169	519.6	23.09	22.92
3	02.08.2021	30.08.2021	8.152	521.3	23.17	

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Date: 09.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	02.08.2021	09.08.2021	8.138	326.3	14.50	
2	02.08.2021	09.08.2021	8.146	338.5	15.04	14.98
3	02.08.2021	09.08.2021	8.152	346.2	15.39	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 30.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	02.08.2021	30.08.2021	8.184	505.2	22.45	
2	02.08.2021	30.08.2021	8.169	519.3	23.08	22.43
3	02.08.2021	30.08.2021	8.152	489.6	21.76	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 09.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	02.08.2021	09.08.2021	8.184	336.3	14.95	
2	02.08.2021	09.08.2021	8.166	346.5	15.40	14.93
3	02.08.2021	09.08.2021	8.152	324.9	14.44	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 30.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	02.08.2021	30.08.2021	8.184	505.2	22.45	22.91
2	02.08.2021	30.08.2021	8.169	516.3	22.95	
3	02.08.2021	30.08.2021	8.146	524.8	23.32	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 11.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft (Culvert)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	04.08.2021	11.08.2021	8.184	324.9	14.44	15.17
2	04.08.2021	11.08.2021	8.160	346.5	15.40	
3	04.08.2021	11.08.2021	8.144	352.8	15.68	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 01.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft (Culvert)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	04.08.2021	01.09.2021	8.184	505.2	22.45	
2	04.08.2021	01.09.2021	8.136	519.3	23.08	22.42
3	04.08.2021	01.09.2021	8.152	488.9	21.73	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 13.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall (Culvert)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	06.08.2021	13.08.2021	8.184	352.9	15.68	15.09
2	06.08.2021	13.08.2021	8.165	336.3	14.95	
3	06.08.2021	13.08.2021	8.128	329.1	14.63	

Note:

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 03.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**: Sri. Umesh N,** Contractor, Bangalore.
Name of the work	: Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.
Sample ID	: Cement Concrete for Wall (Culvert)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	06.08.2021	03.09.2021	8.166	505.2	22.45	
2	06.08.2021	03.09.2021	8.189	516.3	22.95	22.38
3	06.08.2021	03.09.2021	8.136	488.9	21.73	

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.
4. The Results of the Materials tested meets the Standards and hence can be used for the work.

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 16.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	09.08.2021	16.08.2021	8.124	336.3	14.95	
2	09.08.2021	16.08.2021	8.136	346.5	15.40	15.34
3	09.08.2021	16.08.2021	8.165	352.8	15.68	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 06.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	09.08.2021	06.09.2021	8.184	505.2	22.45	
2	09.08.2021	06.09.2021	8.162	516.8	22.97	22.38
3	09.08.2021	06.09.2021	8.135	488.9	21.73	

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 19.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	12.08.2021	19.08.2021	8.168	365.6	16.25	15.43
2	12.08.2021	19.08.2021	8.179	329.3	14.64	
3	12.08.2021	19.08.2021	8.152	346.5	15.40	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 09.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	12.08.2021	09.09.2021	8.188	505.2	22.45	22.38
2	12.08.2021	09.09.2021	8.169	516.3	22.95	
3	12.08.2021	09.09.2021	8.146	488.9	21.73	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 19.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	12.08.2021	19.08.2021	8.188	346.2	15.39	
2	12.08.2021	19.08.2021	8.194	355.3	15.79	15.27
3	12.08.2021	19.08.2021	8.162	328.9	14.62	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 09.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall (Drain)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	12.08.2021	09.09.2021	8.184	505.2	22.45	
2	12.08.2021	09.09.2021	8.165	516.8	22.97	22.44
3	12.08.2021	09.09.2021	8.138	492.8	21.90	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 26.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Ramp (Culvert)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	19.08.2021	26.08.2021	8.148	355.3	15.79	
2	19.08.2021	26.08.2021	8.162	349.6	15.54	15.47
3	19.08.2021	26.08.2021	8.138	339.3	15.08	

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4. The Results of the Materials tested meets the Standards and hence can be used for the work.

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 16.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Ramp (Culvert)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	19.08.2021	16.09.2021	8.184	505.2	22.45	22.38
2	19.08.2021	16.09.2021	8.169	516.3	22.95	
3	19.08.2021	16.09.2021	8.128	488.9	21.73	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 30.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Road

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	23.08.2021	30.08.2021	8.188	512.2	22.76	
2	23.08.2021	30.08.2021	8.164	509.3	22.64	22.38
3	23.08.2021	30.08.2021	8.152	488.9	21.73	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 20.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**: Sri. Umesh N,** Contractor, Bangalore.
Name of the work	Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.
Sample ID	: Cement Concrete for Road
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	23.08.2021	20.09.2021	8.168	708.2	31.48	31.89
2	23.08.2021	20.09.2021	8.176	719.6	31.98	
3	23.08.2021	20.09.2021	8.152	724.5	32.20	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 30.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**: Sri. Umesh N,** Contractor, Bangalore.
Name of the work	Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.
Sample ID	: Cement Concrete for Road
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	23.08.2021	30.08.2021	8.166	484.6	21.54	
2	23.08.2021	30.08.2021	8.184	515.2	22.90	22.23
3	23.08.2021	30.08.2021	8.179	500.9	22.26	

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.
4. The Results of the Materials tested meets the Standards and hence can be used for the work.

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 20.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**: Sri. Umesh N,** Contractor, Bangalore.
Name of the work	Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.
Sample ID	: Cement Concrete for Road
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	23.08.2021	20.09.2021	8.198	708.2	31.48	
2	23.08.2021	20.09.2021	8.155	715.9	31.82	31.86
3	23.08.2021	20.09.2021	8.164	726.4	32.28	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 30.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Umesh N,** Contractor, Bangalore.

Name of the work Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.

Sample ID : Cement Concrete for Road

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Dare of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	23.08.2021	30.08.2021	8.198	486.9	21.64	
2	23.08.2021	30.08.2021	8.166	495.6	22.03	22.15
3	23.08.2021	30.08.2021	8.154	512.3	22.77	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 20.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**: Sri. Umesh N,** Contractor, Bangalore.
Name of the work	Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.
Sample ID	: Cement Concrete for Road
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	23.08.2021	20.09.2021	8.198	715.2	31.79	
2	23.08.2021	20.09.2021	8.154	729.6	32.43	32.26
3	23.08.2021	20.09.2021	8.149	732.6	32.56	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22

Date: 30.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**: Sri. Umesh N,** Contractor, Bangalore.
Name of the work	Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.
Sample ID	: Cement Concrete for Road
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	23.08.2021	30.08.2021	8.184	515.2	22.90	
2	23.08.2021	30.08.2021	8.166	488.9	21.73	22.30
3	23.08.2021	30.08.2021	8.138	500.9	22.26	

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Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. Umesh N,** Contractor, Bangalore.
Name of the work	Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.
Sample ID	: Cement Concrete for Road
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	23.08.2021	20.09.2021	8.169	708.2	31.48	
2	23.08.2021	20.09.2021	8.146	716.9	31.86	31.90
3	23.08.2021	20.09.2021	8.152	728.4	32.37	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 30.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**: Sri. Umesh N,** Contractor, Bangalore.
Name of the work	Improvements to Roads and drains at Mugeshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.
Sample ID	: Cement Concrete for Road
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	23.08.2021	30.08.2021	8.198	515.2	22.90	
2	23.08.2021	30.08.2021	8.184	526.3	23.39	22.94
3	23.08.2021	30.08.2021	8.156	507.2	22.54	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 20.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. Umesh N,** Contractor, Bangalore.
Name of the work	Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.
Sample ID	: Cement Concrete for Road
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	23.08.2021	20.09.2021	8.196	715.2	31.79	31.46
2	23.08.2021	20.09.2021	8.154	708.9	31.51	
3	23.08.2021	20.09.2021	8.138	699.2	31.08	

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Job No.: CACE/BBMP/UN/W.No.05/2021-22 Date: 19.08.2021

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. Umesh N,** Contractor, Bangalore.
Name of Work	:	Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	19.08.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.375	2329.10	1.64	0.961	32.30	16.45	17.77	17.08	21.34
2	50.00	85.00	0.395	2366.73	1.70	0.968	32.90	16.76	18.10	17.51	21.89
3	50.00	87.00	0.407	2382.57	1.74	0.972	33.60	17.11	18.48	17.96	22.45

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Job No: CACE/BBMP/UN/W.No.05/2021-22 Date: 16.08.2021

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. Umesh N,** Contractor, Bangalore.
Name of Work	:	Improvements to Roads and drains at Muneshwara Nagar and surrounding area in Ward no.05 Jakkur, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	16.08.2021
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{25}

Sl.No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	122.00	1.815	2338.52	1.36	0.930	132.30	20.80	22.46	20.90	26.12
2	90.00	124.00	1.866	2365.46	1.38	0.933	133.80	21.03	22.71	21.19	26.49
3	90.00	126.00	1.916	2390.29	1.40	0.935	136.20	21.41	23.12	21.62	27.03

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